#2/37 Page 1 of 73-601

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/712,142
DATE: 11/29/2000
TIME: 09:13:47

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             Chopra, Arvind
              Ruben, Steven M.
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     17 <130> FILE REFERENCE: 1488.0630002
C--> 21 <140> CURRENT APPLICATION NUMBER: US/09/712,142
C--> 21 <141> CURRENT FILING DATE: 2000-11-15
     21 <150> PRIOR APPLICATION NUMBER: US 60/030,720
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                                       20
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                                                                              290
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171 Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys 172 - 15 - 15 - 5 175 Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys 176 - 1 1 - 5 179 Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp		·															
172 -15 -10 -5 175 Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys 176 -1 1 5 10 179 Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp						Live	Thr	uie	Len	Len	Δla	Dha	Ser	T.ou	Lau	Cve	
175 Leu Leu Ser Lys Val. Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys 176 -1 1 5 10 179 Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp		ncc ni	g dry	1111		LJS	1111	11123	LCII		niu	1110	JC1.	LCu		C13	
176 -1 1 5 10 179 Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp		Leu Le	u Ser	Lvs		Ara	Thr	G] n	Leu		Pro	Thr	Pro	Cvs	_	Cys	
179 Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp				-			~ 14.1.			J, 5				J, 3		-10	
		Pro Tr			Pro	Arg	Cys		Leu	Gly	Val	Pro		Val	Leu	Asp	
			-			-				-						-	

183 Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys

RAW SEQUENCE LISTING DATE: 11/29/2000 PATENT APPLICATION: US/09/712,142 TIME: 09:13:47

Input Set : A:\seqlist 1488 0630002.txt
Output Set: N:\CRF3\11292000\1712142.raw

184 30 35 187 Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro 188 50 55 191 Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp 192 65 70 195 Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr 196  $\,$  80  $\,$  85  $\,$  90 199 Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe 200 95 100 105 203 Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp 115 120 207 Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu 208  $\phantom{\bigg|}130\phantom{\bigg|}130\phantom{\bigg|}135\phantom{\bigg|}135\phantom{\bigg|}$ 211 Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala 212  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155 215 Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val 216  $\phantom{\bigg|}$  160  $\phantom{\bigg|}$  165  $\phantom{\bigg|}$  170 219 Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys 220 175 180 223 Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg 224 190 195 200 205 227 Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser 228 210 215 220 210 215 231 Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe 232  $\,^{\circ}$  225  $\,^{\circ}$  230 235 <210> SEQ ID NO: 3 237 <211> LENGTH: 349 239 <212> TYPE: PRT 241 <213> ORGANISM: Homo sapiens 245 <400> SEQUENCE: 3 247 Met Thr Ala Ala Ser Met Gly Pro Val Arg Val Ala Phe Val Val Leu 1.0 253 Cys Arg Cys Pro Asp Glu Pro Ala Pro Arg Cys Pro Ala Gly Val Ser 35 40 256 Leu Val Leu Asp Gly Cys Gly Cys Cys Arg Val Cys Ala Lys Gln Leu 257 50 60 259 Gly Glu Leu Cys Thr Glu Arg Asp Pro Cys Asp Pro His Lys Gly Leu 260 65 70 75 80 80 262 Phe Cys Asp Phe Gly Ser Pro Ala Asn Arg Lys The Gly Val. Cys Thr 263 85 90 95 268 Gly Glu Ser Phe Gln Ser Ser Cys Lys Tyr Gln Cys Thr Cys Leu Asp 269  $\phantom{\bigg|}115\phantom{\bigg|}125\phantom{\bigg|}$ 271 Gly Ala Val Gly Cys Met Pro Leu Cys Ser Met Asp Val Arg Leu Pro 272 1.30 1.35 274 Ser Pro Asp Cys Pro Phe Pro Arg Arg Val Lys Leu Pro Gly Lys Cys

RAW SEQUENCE LISTING DATE: 11/29/2000 PATENT APPLICATION: US/09/712,142 TIME: 09:13:47

Input Set : A:\seqlist 1488 0630002.txt
Output Set: N:\CRF3\11292000\I712142.raw

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150
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275 145
277 Cys Glu Glu Trp Val Cys Asp Glu Pro Lys Asp Gln Thr Val Val Gly
278 165 170
280 Pro Ala Leu Ala Ala Tyr Arg Leu Glu Asp Thr Phe Gly Pro Asp Pro 281 180 185 190
283 Thr Met Ile Arg Ala Asn Cys Leu Val Gl<br/>n Thr Thr Glu Trp Ser Ala 284 195 200 205
284 195
                               200
286 Cys Ser Lys Thr Cys Gly Met Gly Ile Ser Thr Arg Val Thr Asn Asp
287 210 21.5
                                         220
289 Asn Ala Ser Cys Arg Leu Glu Lys Gln Ser Arg Leu Cys Met Val Arg
             230
                                   235
292 Pro Cys Glu Ala Asp Leu Glu Glu Asn Tle Lys Lys Gly Lys Lys Cys 293 245 250 255
295 Ile Arg Thr Pro Lys Ile Ser Lys Pro Ile Lys Phe Glu Leu Ser Gly 296 265 270
              260
                                   265
298 Cys Thr Ser Met Lys Thr Tyr Arg Ala Lys Phe Cys Gly Val Cys Thr 299 \phantom{\bigg|}275\phantom{\bigg|}280\phantom{\bigg|}285\phantom{\bigg|}
301 Asp Gly Arg Cys Cys Thr Pro His Arg Thr Thr Leu Pro Val Glu
302 290 295
304 Phe Lys Cys Pro Asp Gly Glu Val Met Lys Lys Asn Met Met Phe Ile
305 305 310 315 320
307 Lys Thr Cys Ala Cys His Tyr Asn Cys Pro Gly Asp Asn Asp Ile Phe 308 $325$
310 Glu Ser Leu Tyr Tyr Arg Lys Met Tyr Gly Asp Met Ala 311 $340$ $345$
313 <210> SEQ ID NO: 4
315 <211> LENGTH: 36
317 <212> TYPE: DNA
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355 <21.0> SEQ T.D NO: 7
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365 <400> SEQUENCE: 7
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366 gatytggtac eegtgteece atteccagee eg
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TIME: 09:13:47 PATENT APPLICATION: US/09/712,142 Input Set : A:\seqlist 1488 0630002.txt Output Set: N:\CRF3\11292000\I712142.raw 369 <210> SEQ ID NO: 8 371 <211> LENGTH: 40 373 <212> TYPE: DNA 375 <213> ORGANTSM: DNA primer 379 <400> SEQUENCE: 8 380 geteggatee gecateatga gaggeacace gaagaceeac 40 383 <210> SEO ID NO: 9 385 <211> LENGTH: 43 387 <212> TYPE: DNA 389 <213> ORGANISM: DNA primer 393 <400> SEQUENCE: 9 394 gatgttetag aagaaggcac tgttttqtgg actgcgaccc etg 397 <210> SEQ ID NO: 10 399 <211> LENGTH: 264 401 <212> TYPE: DNA 403 <213> ORGANISM: EST 407 <220> FEATURE: 409 <221> NAME/KEY: Unsure 411 <222> LOCATION: (56)..(56) 413 <223> OTHER INFORMATION: May be any nucleotide. 419 <220> FEATURE: 421 <221> NAME/KEY: Unsure 423 <222> LOCATION: (128)..(128) 425 <223> OTHER INFORMATION: May be any nucleotide. 431 <220> FEATURE: 433 <221> NAME/KEY: Unsure 435 <222> LOCATION: (246) .. (246) 437 <223> OTHER INFORMATION: May be any nucleotide. 443 <400> SEQUENCE: 10 -> 444 ctggtggeec tgtgcctggg ccctgggctg atggaagatg gtccgtgccc aggccnttgg 60 446 ctgcaggcaa-cactttaget tgggtccace atgcagaaca ccaatattaa cacgetgeet 120 448 ggtctgtntg gatcccgagg tatggcagag gtgcaagacc tagtcctctt tectctaact 450 cactgcctag gaggctggcc aaggtgtcca gggtcctcta gcccacttcc tgcctacaca 180 240 -> 452 cacagnctat atcaaacatg caca 264 455 <210> SEQ ID NO: 11 457 <211> LENGTH: 239 459 <212> TYPE: DNA 461 <213> ORGANISM: EST 465 <220> FEATURE: 467 <221> NAME/KEY: ห์กิรุนาย 469 <222> LOCATION: (5)..(5) 471 <223> OTHER INFORMATION; May be any nucleotide. 477 <220> FEATURE: 479 <221> NAME/KEY: Unsure 481 <222> LOCATION: (10)..(10) 483 <223> OTHER INFORMATION: May be any nucleotide. 489 <220> FEATURE: 491 <221> NAME/KEY: Unsure 493 <222> LOCATION: (85)..(85)

RAW SEQUENCE LISTING

DATE: 11/29/2000

## MI!

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/712,142

DATE: 11/29/2000 TIME: 09:13:48

Input Set : A:\seqlist 1488 0630002.txt
Output Set: N:\CRF3\11292000\1712142.raw

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L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12